mercial implementations of the present invention, and are therefore without limit. The following description of FIG. **1** provides an exemplary embodiment of a flexible display foil of the present invention incorporating the aforementioned first inventive principle of the present invention.

As illustrated in FIG. **1**, a flexible display foil **20** employs a flexible display **21** and a display cover **22** integrated relative to a display section **23** of display cover **22**. An attachment section **24** of display cover **22** facilitates a coupling of flexible display foil **20** to a stick in any conventional manner. The dimensions of attachment section **24** can be selected to be less than, equal to or greater than a perimeter of the stick. Additionally, a portion of attachment section **24** can be coupled to an external surface and/or an interface surface of the stick, and/or a portion or an entirety of attachment section **24** can be permanently wrapped around the stick. An optional control section **25** of display cover **22** facilitates a construction of a keyboard or any other type of mechanism for controlling flexible display **21** as needed.

A second inventive principle of the present invention is to structurally configure a hinged frame having a curvilinear configuration for fixing a flexible display in a storage position with respect to a stick when the flexible display is wrapped around the stick (i.e., a body having a tubular configuration having a circular, elliptical, rectangular with rounded corners, square with rounded corners or any other curvilinear cross-section). The hinged fringe is further structurally configured under the second inventive principle of the present invention to have a planar configuration for fixing the flexible display in an operational position with respect to the stick when the flexible display is unwrapped from around the stick (i.e., a flat and straight configuration of a viewing screen of the flexible display within a single plane).

The present invention does not impose any limitations or restrictions to the structural configuration and material composition of a hinged frame of the present invention. Thus, in practice, the specific implementations of a hinged frame of the present invention is dependent upon the commercial implementations of the present invention, and are therefore without limit. In one embodiment, a hinged frame of the present invention employs one or more rigid base supports and one or more hinge supports for supporting a flexible display. The following description of FIG. **2** provides an exemplary embodiment of a hinged frame employing two (2) rigid base supports and two (2) hinge supports.

Referring to FIG. **2**, a hinged frame **30** of the present invention partially encircling flexible display foil **20** with attachment section **24** being unobstructed by hinged frame **30**. Hinged frame **30** employs two (2) rigid base supports **31** and **32** and two (2) hinge supports **33** and **34**, with each support **31**-**34** vertically extending across flexible display foil **20**. Hinge support **33** is hinged to rigid base support **31** whereby hinge support **33** is pivotable relative to rigid base support **31**. Hinge support **33** may also be hinged to a stick whereby hinge support **33** would be additionally pivotable relative to the stick. Hinge support **34** is hinged to rigid base supports **31** and **32** whereby hinge support **33** is pivotable relative to rigid base supports **31** and **32**.

To further illustrate the pivotal interaction between the rigid base supports and the hinge supports of a hinged frame in accordance with the of the present invention, FIG. **3** illustrates three (3) display segments DS**1**-DS**3** of a flexible display in a curvilinear profile of the flexible display involving display segments DS**1** and DS**3** having a planar shape and display segment DS**2** being in a curved shape of an approximately constant radius R**1** designed to uniformly wrap display segment DS**2** around a stick. With "approximately constant radius R**1**" is meant that although preferably the radius R**1** of the display segment D**2** may be constant, the radius may show a deviation of about max 35% between the connection with the neighboring display segment (DS**1**, DS**3**) and the middle of the display segment D**2** between both connections. With this deviation the profile of the display segment DS**2** is adapted to that of the end portion of the stick and it is still possible to uniformly wrap display segment DS**2** around the stick. A larger deviation will result in too large risk of damage of the display and for an unacceptable volume of the stick. For manufacturing reasons the deviation of R**1** is about 3-6%. Alternatively, the display segment DS**2** may show a substantially elliptical arch with locally a smaller, approximately constant R**1** from the connection with the neighbouring display segment DS**1**, DS**3** and a larger R**1** in the middle of segment DS**2**. Also in this configuration the profile of the display segment is adapted to the profile of the end portion of the stick that shows a somewhat flattened surface at the top. Conversely, FIG. **4** illustrates the flexible display in a planar profile involving all of the display segments DS**1**-DS**3** having a planar shape. Referring to FIGS. **3** and **4**, display segments DS**1** and DS**3** are to be adjacent and attached to rigid base supports of a hinged frame and therefore will always be in planar profile irrespective as to whether the flexible display is wrapped around a stick or unwrapped from around the stick. By contrast, display segment DS**2** is to be adjacent and unattached to a hinge support of the hinged frame. As such, an identification of attachment points AP**1** and AP**2** as endpoints of display segment DS**2** is essential to ensure that display segment DS**2** is uniformly stowed over its entire length L**1** within an adjacent hinge support in response to being in the curvilinear profile shown in FIG. **3** and to ensure that display segment DS**2** is flat and straight over its entire length L**1** relative to the adjacent hinge support in response to being in the planar profile shown in FIG. **4**.

Specifically, FIG. **5** illustrates a hinge support having an arch segment AS**1** hinged to a rigid base support BS**1** at a hinged point HP**1** and an arch segment AS**2** hinged to a rigid base support BS**2** at hinged point HP**3** with arch segments AS**1** and AS**2** being hinged at hinge point HP**2**. A distance D**1** between hinge points HP**1** and HP**3** extends across arch segment AS**1**. A distance D**2** between hinge points HP**2** and HP**3** extends across arched segment AS**2**. A distance D**3** (shown in FIG. **6**) between attachment point AP**1** and hinge point HP**1** extends along rigid base support BS**1** whereby $D3 \geqq 0$. And, a distance D**4** (shown in FIG. **6**) between attachment point AP**2** and hinge point HP**3** extends along rigid base support BS**2** with distance D**4** preferably equaling distance D**3**.

A summation of distances D**1**-D**4** must equal length L**1** of display segment DS**2** to ensure display segment DS**2** is uniformly stowed over it entire length L**1** within arch segments AS**1** and AS**2** when display segment DS**2** has the curved shape shown in FIG. **5** based arch segments AS**1** and AS**2** being in a closed state, and to ensure that display segment DS**2** is flat and straight over its entire length L**1** relative to arch segments AS**1** and AS**2** when display segment DS**2** has the planar shape shown in FIG. **6** based on arch segments AS**1** and AS**2** being in an open state. Those having ordinary skill in the art will appreciate a wrapped radius of arch segment AS**1** and arch segment AS**2** is based on the wrapped radius R**1** of display segment DS**1** (FIG. **3**) and is determinative of distances D**3** and D**4**.

By further example, FIGS. **7** and **8** illustrate a hinge support having a single arch segment AS**3** hinged to rigid base support BS**1** at a hinged point HP**4** and hinged to rigid base support BS**2** at hinged point HP**5**. A distance D**5** between hinge points HP**4** and HP**5** extends across arch segment AS**3**.